No.



200300103

HHE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Hioneer Hi-Bred International, Inc.

MINITERS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT. VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT. R. CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN SCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY

ION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'93M91

In Testimon Merrot, I have hereunto set my hand and caused the seal of the Mant Anciety Arotection Office to be affixed at the City of Washington, D.C. this eighteenth day of July, in

gar two thousand three.

Au 1

genzbe

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agricultur

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)

				}				
NAME OF OWNER Pioneer Hi-Bred Inter		2. TEMPORARY DESIGNAT EXPERIMENTAL NAME	ON OR 3. VARIETY NAME 93M91					
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 7300 N. W. 62 rd Avenue P.O. Box 1004 Johnston, IA 50131					5. TELEPHONE (include area code) 515-254-2638		FOR OFFICIAL USE ONLY	
					6. FAX (include area code	e)		
And the state of t					515-253-2478		FILING DATE	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporate 8. IF INCORPORA STATE OF INCO				TED, GIVE DRPORATION	9. DATE OF INCORPORATION May 6, 1926		1/28/03	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (Daria Schmidt, Ph. D. Steve Callestine, Exq 7300 N.W. 62 th Avenue 7100 N.W 62 th Avenue P.O. Box 1004 P.O. Box 1000 Johnston, IA 50131-1004 Johnston, IA 50131-1000			CATION. (1	First person listed will	receive all papers)		FILING AND EXAMINATION FEES: \$ 2705 DATE 1/28/03 CERTIFICATION FEE: \$ 432	
11. TELEPHONE (Include area code)	12. FAX (Include area	code)	13, E-	MAIL		14. CROP	KIND (Common Name)	
515-254-2638	515-253-2478	,		midt@pioneer.com		Soybean	Tanto (common romo)	
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a.			20. DOES THE OVARIETY BE IF YES, WHICE 21. DOES THE OVARIETE AS TO SHAPE A STORY A ST	SEED? See Section 83(a) of a (if "yes", answer items 20 and 21 below) WNER SPECIFY THAT SEED CLIMITED AS TO NUMBER OF CHICLASSES? FOUNDATON NUMBER OF GENERATION IFY THE GOUNDATON SEED OF THAT THE CLION NUMBER OF GENERATION SEED OF THE SEED OF T	F INTERPRETATION TO RECEIVE THE VARIETY CHT OR PATENTS	NO (If "no," go to item 22) YES NO GISTERED CERTIFIED YES NO REGISTERED CERTIFIED indicated on the reverse.) PROTECTED BY INTELLECTUAL NO AND ASSIGNED		
24. The owners declare that a viable sample of for a tuber propagated variety a tissue cult. The undersigned owner(s) is(are) the owner and is entitled to protection under the prov. Owner(s) is(are) informed that false repres.	ore will be deposited in a pi er of this sexually reproduce isions of Section 42 of the F	ublic repository and it ed or tuber propagated Plant Variety Protectio	naintaineo i d plant vari in Act.	ror the duration of the ety, and believe(s) tha	certificate.		•-	
SIGNATURE OF OWNER AUG 7. Solmingt				SIGNATURE OF O	WNER			
NAME (Please print or type) Daria H. Schmidt				NAME (Please print or type)				
CAPACITY OR TITLE Director, Technology Integration and Associative Genetics DATE L/13(2)3				CAPACITY OR TIT	ITLE DATE			

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

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ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2509 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces ST-470 (02-99) which is obsolete.

Exhibit A. Origin and Breeding History of the Variety

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Soybean Variety 93M91

Variety 93M91 evolved from a cross made in the winter of 1997 in Puerto Rico with the following parentage:

Parentage: 9421/XB43J

XB43J = 9362/90755

90755 = 9362/90683

90683 = 9362/G40-3P9392*

*G40-3P9392 is an experimental line with the Roundup Ready (40-3-2) gene

Variety 93M91 is an F3-derived line which was advanced to the F4 generation by modified single-seed descent. The F4 progeny row of 93M91 was grown in a plant row yield trial in the summer of 1999. Subsequently, 93M91 has undergone three years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, resistance to soybean cyst nematode, resistance to certain sulfonyl urea herbicides as governed by a modified ALS gene, and resistance to Roundup branded herbicides, variety 93M91 was assigned a commercial number.

The purification block was grown in 2001 Illinois in 144 subline rows, of which 33 were harvested. A half-acre increase was grown in Argentina in 2001/02. Six hundred twenty-eight (628) acres of parent and production seed were grown in the summer of 2002.

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Exhibit B. Statement of Distinctness

Soybean Variety 93M91

Variety 93M91 is most similar to 9396. Both varieties have white flowers, tawny pubescence, yellow seed with black hila, and resistance to Roundup branded herbicides. However, 93M91 has resistance to certain sulfonyl urea herbicides as governed by a modified ALS gene whereas 9396 does not contain a modified ALS gene for resistance to certain sulfonyl urea herbicides.

Variety 93M91 is also similar to 94B01. Both varieties have white flowers, tawny pubescence, yellow seed with black hila, and resistance to Roundup branded herbicides. However, 93M91 has resistance to certain sulfonyl urea herbicides as governed by a modified ALS gene whereas 94B01 does not contain a modified ALS gene for resistance to certain sulfonyl urea herbicides.

Variety 93M91 is also similar to AG3601 from Asgrow (Monsanto). Both varieties have white flowers, tawny pubescence, yellow seed with black hila, resistance to Roundup branded herbicides and resistance to certain sulfonyl urea herbicides as governed by a modified ALS gene. However, 93M91 does not have a resistance gene at the Rps1 locus whereas AG3601 has multi-race resistance to *Phytophthora megasperma* as governed by the Rps1c gene.

Form Approved - OMB No. 0581-0055

the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. B control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for tructions, searching existing data ources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

artment of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual nd marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, c.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

plaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326 W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 DD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

NAME OF APPLICANT(S)			<u> </u>	FOR OFFICIAL USE ONLY
Pioneer Hi-Bred, International				r200003 0 0 1 0 3
ADDRESS (Street and No. or R.F.D. No., City, State,	and Zip Cod			
7200 62nd Avenue P.O Box 1004 Johnston, IA 50131-1004				VARIETY NAME 93M91
			ta et eg	TEMPORARY OR EXPERIMENTAL DESIGNATION
				<u> </u>
PLEASE READ ALL INSTRUCTIONS	CAREFULLY: Place t			
Place a zero in the first box (e.g.	9 9 or	0 9) when n	umber is either 99 or less o	9 or less respectively. Data for
quantitative				
plant characters chould be based on a min	nimum of 100 plants. (Comparative data should be	determined from varieties e	entered in the same trial. Royal
Horticulutral Society or any recognized c	olor standard may be	used to determine plant color	rs; designate system used:	
Please answer all questions for your varie		_		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
A. MORPHOLOGY	1	e e e		
Seed Shape				
1 = Spherical (L/W, L/T, and T/W	ratios < 1.2)	2 = Spherical - (L/W ratio > 1.	Flattened 2; L/T ratio < 1.2)	
3 = Elongated (L/T ratio . 1.2; T/V	V ratio < 1.2)	4 = Elongate (L/T ratio > 1.2	Flattened 2;T/W ratio > 1.2)	
Seed Coat Color:				
1 = Yellow	2 = Green	3 = Brown 4 =	Black 5 = Othe	•
1 — Tenow	z – Green	3 - DIUWH 4 -	(Please S	Section 1985
Seed Coat Luster:	e e e e e e e e e e e e e e e e e e e		(Fieuse D	pecijy
1 = Dull	2 = Shiny			
Seed Size:			•	
15.1 grams/100 seed	ds			
Hilum Color:				
6 1 = Buff	2 = Yellow	3 = Brown $4 = 0$	Grav 5 = Impe	rfect Black
6 = Black	7 = Other (Plea			
U Diata	. Other (110)	and Decogy)		

A. MORPHOLOGY (Continued)

Cotyledon Color:

1

1 = Yellow

2 = Green

Seed Protein Peroxidase Activity:

1 = Low

2 = High

Hypocotyl Color:

1

('Evans' or 'Davis')

2 = Green with Bronze **Bands below Cotyledons**

('Woodworth' or 'Tracy')

3 = Light Purple below Cotyledons

('Beeson' or 'Pickett 71')

4 = Dark Purple extending to unifoliolate leaves

('Hodgson', 'Coker', or

200300103

Leaflet Shape:

3

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

1

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

1

1 = Tan

2 = Brown

3 =Black

Pubescence Color:

2

1 = Gray

2 = Brown (Tawny)

3 =Light Tawny

Plant Habit:

3

1 = Determinate

2 = Semi - Determinate

3 =Indeterminate

4 =Intermdeiate

Maturity Group:

06

1 = 000

2 = 00

3 = 0

4 = I

5 = II

6 = III

7 = IV

8 = V

9 = VI

10 = VII

11 = VIII

12 = IX

13 = X

14 = XI

15 = XII

Maturity Subgroup:

9

Please enter a value from 0 - 9

B. DISEASE REACTION

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

Bacterial

0

Bacterial Pustule (Xanthomonas campestri pv. glycines (Nakano) Dye)

1

Bacterial Blight Pseudomonas syringa pv. glycinea (Coerper) Young, Dye, and Wilkie)

0

Wildfire Blight Pseudomonas syringa pv. tabaci (Wolf Foster) Young, Dye, Wilkie)

Funga	1					<i>(</i> **)			
1	Brown Spot (S	eptoria glycines <u>H</u> emmi)		-	200	300	103	
	Frogeye Leaf S	pot <i>(Cercospora sojina</i>	Hara)						
2	race 1	0 race 2			0 race	3	0	race 4	
0	race 5	0 race 6			Oth	e (Please Specify)			
0	Target Spot (Co	orynespora cassiicola (l	Berk. C	Curt.) Wei)					
0	Downey Mildew	(Peronospora trifoliori	ım var.	manchuric (N	aum.) Syd.	ex Gäum)	•		
0	Powdery Mildew	v (Microsphaera diffuso	Cke. a	and Pk.)					
2	Brown Stem Rot (Phialophora gregata (Allington Chamberlain) W. Gams.)								
0	Stem Canker (L	Diaporthe phaseolorum	(Cke. a	and Ell.) Sacc. v	var <i>caulivor</i>	a Athow and Cal	dwell		
1	Pod and Stem Bl	ight <i>(Diaporthe phase</i>	olorum	(Cke. and Ell.) Sacc. var	s <i>ojae</i> (Lehman) V	Vehm		
0	Purple Seed Stair	n <i>(Cercospora kikuc</i>	hii (T.	Matsu. and To	omoyasu) Ga	rdener)			
1	Rhizoctonia Roo	t Rot <i>(Rhizoctonia so</i>	<i>lani</i> Ki	ihn)					
Phytop	hthora Root Rot (1	Phytophthora megasper	ma D	rechs. f. sp gly	cinea (Kua	n Erwin))			
0	race 1	0 race 8	0 -	race 15	0	race 22			
0	race 2	0 race 9	0	race 16	0	race 23			
1	race 3	0 race 10	0	race 17	0	race 24			
0	race 4	0 race 11	0	race 18	1	race 25			
0	race 5	0 race 12	0	race 19	0	race 26			
0	race 6	0 race 13	0	race20		Other (Please S	pecify)		
1	race 7	0 race 14	0	race 21					
1	Bud Blight (Toba	cco Ringspot Virus)							
1	Yellow Mosaic (b	ean Yellow Mosaic Vi	rus)				e P		

B. DISEASE REACTION (Continued) $\theta = \text{Not Tested}$ 1 = Susceptibl

3 = Tolerant

2 = Resistant

B. DISE	ASE REACTION	NS (Continued)	0 = Not	t Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
Fungal			٠.				
1	Cowpea Mosaic (Co	owpea Chlorotic Viz	rus)				
1	Pod Mottle (Bean P	Pod Mottle Virus)				20(300103
1	Seed Mottle (Soybe	an Mosaic Virus)					
Nemato	ode						
Soybear	n Cyst Nematode (H	leterodera glycines Id	chinohe)			
0	race 1	race 4	0	race 9			
0	race 2	race 5	0	race 14			
2	race 3	race 6		Other	(Please Specify)		
0	Lance Nematode (Hoploaimus columb	us Sher)			
0	Southern Root Kno	t Nematode <i>(Meloi</i>	dogyne	incognita	(Kofoid and Wh	ite) Chitwo	
0	Northern Root Kno	t Nematode <i>(Meloi</i>	dogyne	<i>hapla</i> Chi	itwood)		
0	Peanut Root Knot N	Nematode <i>(Meloidog</i>	yne arei	naria (Nes	al) Chitwood)		
0	Reniform Nematode	e (Rotylenchus renij	formu 1	Linwood a	nd Olivera)		
0	Javanese Nematode	(Meloidogyne javar	nica (Ti	reub) Chit	wood)		
	Other Nematode (A	Please Specify)					
C. PHYS	SIOLOGICAL R	ESPONSES	0 = Not	Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
1	Iron Chlorosis on Ca	alcareous Soil		1			
0	Phosphorus			Oth	er (Please Speci	ify)	
0	Boron						
0	Aluminu						
0	Salt						
0	Drought						

D. INSECT REACTIONS	0 = Not Tested $1 = Susceptible$	2 = Resistant	3 = Tolerant	
Fungal				
O Mexican Bean Beetle (Epilachna v.	arivestis Mulsant)			
O Potato Leaf Hopper (Empoasca fab	bae (Harris))	2	003001	0 ;
Other (Please Specify)				-
E. HERBICIDE REACTIONS	0 = Not Tested 1 = Susceptible	2 = Resistant		
0 Metribuzin				
O Bentazone				
2 Sulfonylurea				
2 Glyphosate				
0 Glufosinate				
O Pendimethalin				
O Other (Please Specify)				
F. TRANSGENIC COMPOSITION			• • • • • • • • • • • • • • • • • • •	
Has the development of the subject variety inch or, the removal of genetic material from the ap		rom an organism o	ther than a soybean,	
If yes, please complete the following infomation	•	\$ 7	en de la companya de La companya de la co	
1. Please state the vector's name:				
2. Please state the vector components:				
3. Please describe the genetic material successfu	ully transferred into the subject variety	':		
4. Please describe the insertion protocol:				
* A literature citation(s) explaining the four the "Transgenic Composition" portion of this formation of the vector components and insert elemal. Development, Identification, and Character	orm. This section is fully addressed in nents are summarized in Figure 1 and 1	the following publ Table 1 on page 14	lication. Specific 53. Padgette, S.R. et	
G. BIOCHEMICAL MARKERS				
Please describe any biochemical information he (e.g. Simple Sequences Repeats, Restriction Fra				

pages if necessary.

H. COMMENTS

200300103

Exhibit D. Additional Description of the Variety

200300103

Soybean Variety 93M91

In Exhibit C we have identified variety 93M91 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 93M91 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 93M91 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 93M91 is a late Group 3 variety. If Group 3 varieties are divided into tenths, the relative maturity of 93M91 is 3.9.

REPRODUCE LOCALLY. Include form number and edition date on a		FORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in 1974 (5 U.S.C. 552a) and the Paper	n accordance with the Privacy Act of
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to del certificate is to be issued (7 U.S.C. 2 confidential until the certificate is issued.)	421). The information is held
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	2. VARIETY NAME
Pioneer Hi-Bred International, Inc	OR EXPERIMENTAL NUMBER	93M91
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
7300 N.W. 62 nd Avenue P.O. Box 1004	515-254-2638	515-253-2478
Johnston, IA 50131-1004	7. PVPO NUMBER	
	2003	00103
8. Does the applicant own all rights to the variety? Mark an "X" in the If no, please explain.	e appropriate block.	
·		X YES NO
Is the applicant (individual or company) a U.S. National or a U.S. If no, give name of country	based company?	XYES NO
10. Is the applicant the original owner?	If no, please answer one of the fol	lowing:
XYES N	0	g.
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a LLS. Nation	al/s)?
		α(ο).
 b. If the original rights to variety were owned by a company(ies) 	, is (are) the original owner(s) a U.S. ba	sed company?
YES NO If no, give name of country	ry	
11. Additional explanation on ownership (If needed, use the reverse	for extra space):	
		•
		•
Please Note:	•	
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:	
 If the rights to the variety are owned by the original breeder, that prenational of a country which affords similar protection to nationals of 	erson must be a U.S. national, national of f the U.S. for the same genus and speci	of a UPOV member country, or es.
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a c genus and species.	yed the original breeder(s), the company country which affords similar protection t	must be U.S. based, owned by o nationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.
The original breeder/owner may be the individual or company who dir Act for definitions.	rected the final breeding. See Section 4	1(a)(2) ot the Plant Variety Protection
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a	collection of information unless it displaces as a self-d ON	P control number. The until OND

for this information collection is 0581-0055. The time required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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ST-470-E (04-99) (Destroy previous editions).